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## Cotton Fiber and Processing Test Results

CROP of

1976



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 November 19, 1976

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1975, USDA, AMS, Cotton Division, May 1976.



## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1976

### Discussion of Test Results

The average Fibrograph 2.5% span length of short staple cottons tested from the Southwest through November 12 this season is shorter than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. Cottons are slightly less uniform and weaker at both zero and 1/8" gage strength tests. Both Shirley Analyzer nonlint content and picker and card waste are higher than a year earlier. Yarns spun from these samples show considerably weaker yarn strength and lower appearance grades. The average spinning potential yarn number is lower.

The U.S. average fiber length of medium staple samples is slightly shorter than a year ago. Zero gage fiber strength is slightly stronger. Shirley Analyzer nonlint content is lower than last season, while picker and card waste is higher. Yarns spun from these samples show stronger yarn strength with fewer imperfections. The average spinning potential yarn number is slightly lower.

Southeastern area medium staple samples are coarser than a year ago. Fiber strength is stronger. Shirley Analyzer nonlint content is lower than a year ago. Picker and card waste, however, is higher than last season. Yarns spun from these samples are stronger and show higher appearance grades. Imperfections are fewer. The spinning potential is higher than last season.

Medium staple samples tested from the South Central area show fibers to be shorter, finer and stronger than a year ago. The nonlint content is lower, while the picker and card waste percentage is higher. Yarns spun from these samples are stronger. Yarn imperfections are fewer. The average spinning potential yarn number is lower.

Southwestern area medium staple samples tested to date show slightly shorter and finer cottons. Shirley Analyzer nonlint content and picker and card waste are both higher than a year earlier. Yarns spun from these samples show about the same yarn characteristics except for having fewer imperfections than a year ago.

Medium staple samples tested from the West have slightly longer, less uniform and weaker fibers than a year ago. Both Shirley Analyzer nonlint content and picker and card waste are higher this year. Yarns spun from these samples are stronger but appearance grades are slightly lower. Imperfections are fewer than a year ago. The average spinning potential is lower.

Long staple samples from the Southeastern area tested to date, show fibers to be longer, more uniform, coarser and considerably stronger. Shirley Analyzer nonlint content and picker and card waste are both lower than a year ago. Both carded and combed yarns spun from these samples are stronger than a year earlier. Combed appearance grades are higher than a year earlier with fewer yarn imperfections. The average spinning potential is much higher than last season.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 12, 1976 <sup>1/</sup>

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.	
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperf- actions		
				Pct.			Rdg.	Mpsi				G/tex	Pct.
		No.	Inches							22s	Carded	Yarn	Yarn No.
Short Staple: Southwest	14	1.00	45	4.4	89	23	2.9	5.7	103	118	13	46	
	10	.97	44	4.4	84	20	3.3	7.3	85	110	14	36	
Medium Staple: Southeast	17	1.08	45	4.3	84	22	4.3	5.9	98	96	27	54	
	11	1.08	45	4.8	86	24	3.1	6.5	109	101	23	56	
South Central	59	1.10	45	4.5	85	23	3.0	5.1	104	101	19	58	
	54	1.08	45	4.3	88	24	2.7	6.1	109	100	15	55	
Southwest	21	1.08	45	4.3	81	22	2.9	4.7	103	99	22	58	
	25	1.07	45	4.2	81	22	3.2	6.2	104	98	20	58	
West	15	1.12	46	4.2	94	27	2.2	4.5	127	90	24	71	
	14	1.13	45	4.2	89	26	2.5	5.8	123	88	21	68	
U.S. Average	112	1.10	45	4.4	85	23	3.1	5.1	106	98	22	59	
	104	1.09	45	4.3	86	23	2.8	6.1	110	98	18	57	
Significant dif- ference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

<sup>1/</sup> Based on a limited number of samples of modal quality  
<sup>2/</sup> Minimum differences considered to be significant for comparisons in this table.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 12, 1976 1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results					Processing Test Results									
		Length		Mike	Strength		SA Non- lint	P&C Waste	Comber Waste	Yarn Quality				SPY		
		Span	Unif		Zero	1/8" gage				Strength carded	Appearance carded	Imprfctns card	comb			
				In.			Pct.	Rdg.	Mpsi					G/tx	Pct.	Lbs.
		22s Carded & Combed Yarn														
Long Staple: Southeast		No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.		Lbs.	Lbs.	Indx	Indx	No.	No.
	6	1.10	42	4.1	85	22	3.6	9.5	18.8	93	118	110	115	21	12	56
	4	1.15	46	4.4	88	26	2.8	6.3	15.8	118	140	108	122	21	8	68
South Central	4	1.12	43	4.1	88	23	3.7	9.2	17.8	107	126	110	122	18	8	64
	1	1.11	41	3.7	91	27	3.3	6.6	22.0	113	141	100	100	17	9	55
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	4(22s)	5	5	2	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns												
No	Grade	Name & Code	Stple 32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non-lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent- tial			
				2.5% span	Unif		Zero Gage	1/8" Gage		Pet	Rdg	Mpsi	G/tex		Pet	Gra	Yel	8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx		22sor 27 tx	8s or 74 tx	22sor 27 tx
SOUTHWEST AREA																										
CENTRAL TEXAS																										
BRANDON																										
2	SLM	LT SP	42	31	0.97	43	3.9	80	21	6.7	4.7	3	4	8.1	272	91	7.5	6.1	130	100	20	14	40			
																100 PERCENT										
ITALY																										
2	SLM	LT SP	42	30	0.95	43	4.5	82	19	5.9	3.9	3	4	8.2	273	86	6.8	5.5	130	110	17	14	37			
																100 PERCENT										
ITASCA																										
2	LM	LT SP	52 1/2	30	0.96	45	4.9	85	21	5.7	4.2	3	4	8.2	273	86	5.9	5.1	130	110	21	15	34			
																100 PERCENT										

<sup>1/</sup> Reduced from 42 because of grass



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potential	
				2.5% span	Unif.		Mpsi	G/tex			Pct	Rdg		Zero	1/8" Gage	Gra	Yel	Lbs	Pct	22s or 27 tx	50s or 12 tx		Pct
SOUTHEAST AREA																							
ALABAMA																							
1	SLM	41	33	1.05	45	4.7	82	22	7.7	2.6	1	3	6.6	103	33	99 PERCENT	4.5	90	70	34	17	52	
HAZEL GREEN																							
1	SLM	41	33	1.04	45	4.7	83	22	7.1	1.6	2	4	7.5	89	24	100 PERCENT	3.8	90	70	28	22	40	
MONTGOMERY																							
1	SLM	41	34	1.08	44	5.0	87	23	6.3	2.3	2	3	5.8	104	33	80 PERCENT	4.4	110	80	21	17	53	
MOUNDVILLE																							
1	SLM	41	34	1.09	45	4.9	83	24	6.9	2.9	2	3	5.8	107	35	80 PERCENT	4.4	100	80	28	24	58	
NORTHPORT																							
1	SLM	41	34	1.11	45	4.8	79	22	7.7	2.9	1	3	6.0	102	32	80 PERCENT	4.5	100	80	16	13	51	
PRATTVILLE																							
1	SLM	41	35	1.13	47	4.7	90	25	5.9	2.5	2	3	5.8	117	38	95 PERCENT	4.3	100	80	21	17	62	
GEORGIA																							
BOSTWICK																							
1	LM	51	35	1.03	46	4.5	87	24	6.5	5.0	3	3	6.9	117	38	100 PERCENT	4.4	100	90	10	10	62	
SOUTH CENTRAL AREA																							
ARKANSAS																							
ALTHEIMER																							
1	SLM	41	35	1.14	45	4.6	87	25	7.6	2.3	1	2	6.8	120	39	100 PERCENT	4.7	90	70	25	22	62	
2	SLM	41	35	1.13	44	4.4	91	25	7.8	3.5	1	2	6.4	117	39	100 PERCENT	4.7	90	80	21	17	61	
DRIVER																							
2	SLM	41	35	1.09	43	4.0	87	24	6.5	4.0	1	2	7.9	109	33	100 PERCENT	4.2	90	70	16	13	53	
DUMAS																							
1	MID	31	34	1.08	48	4.9	88	24	6.7	1.6	1	3	6.3	112	36	100 PERCENT	4.2	110	90	8	9	56	
2	SLM	41	35	1.10	45	4.2	84	23	6.6	2.7	1	2	5.3	106	34	100 PERCENT	4.5	100	80	13	10	57	
HUGHES																							
2	SLM	41	35	1.12	42	4.2	93	23	6.4	2.8	2	2	5.2	107	35	100 PERCENT	4.3	90	70	19	16	54	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent- ial	
				2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		Lbs	Pct	Lbs	Pct	27 tx	12 tx	27 tx	12 tx		27 tx
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Pct	Pct	No	No	No	No	No		
SOUTH CENTRAL AREA--(Continued)																							
ARKANSAS--(Continued)																							
KEISER																							
2	MID	31	34	1.10	43	4.3	89	23	8.3	1.6	0	2	5.4	116	37	6.7	4.6	100	80	12	11	64	
LEACHVILLE																							
2	SLM	41	34	1.08	43	4.4	86	24	6.9	2.5	1	3	7.0	107	34	5.7	4.5	100	80	15	12	55	
MCGHEE																							
1	SLM	41	34	1.08	45	4.9	87	23	6.4	2.5	1	3	7.6	103	30	5.4	3.8	100	70	21	16	51	
2	SLM	41	35	1.08	46	4.8	87	23	6.5	2.4	2	3	7.0	98	30	5.8	3.8	110	80	14	12	50	
OSCEOLA																							
1	SLM	41	34	1.05	42	3.7	89	21	5.4	3.3	1	3	7.4	91	29	5.3	3.9	70	60	29	26	45	
PROCTOR																							
1	SLM	41	34	1.06	43	4.4	87	22	6.7	2.8	1	3	6.6	101	30	5.9	4.0	90	70	17	15	46	
WYNN																							
1	SLM	41	34	1.06	44	4.0	91	25	8.0	2.8	1	3	5.9	115	37	6.5	4.7	100	80	21	17	56	
LOUISIANA																							
EPPS																							
1	SLM	41	34	1.09	44	4.2	89	24	7.3	2.2	1	3	5.4	113	38	5.9	4.3	100	80	15	10	58	
LAKE PROVIDENCE																							
1	SLM	41	35	1.14	45	4.5	87	24	8.0	3.1	1	2	5.7	120	41	6.8	5.0	100	80	12	8	68	
MONROE																							
1	MID	31	35	1.08	48	5.3	85	24	8.0	1.7	1	3	6.1	106	35	6.1	4.2	110	90	13	12	50	
OPELOUSAS																							
1	SLM	41	34	1.09	45	4.5	83	22	7.2	2.6	2	3	5.5	101	32	6.1	4.2	100	80	16	12	57	
SHREVEPORT																							
1	SLM	41	34	1.09	45	4.6	86	23	7.5	1.7	2	3	4.7	99	30	5.7	3.7	110	80	9	7	50	
2	SLM	41	35	1.10	43	4.6	88	24	6.4	2.4	1	2	5.6	103	32	5.7	4.2	100	70	15	13	53	
SICILY ISLAND																							
2	SLM	41	34	1.10	46	4.9	92	24	5.4	3.3	1	2	7.3	107	32	5.4	3.7	100	70	12	8	55	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns										
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potential	
				2.5% span	Unif.		Pct	In		Zero Gage	1/8" Gage	Pct	Pct		Gra	Yel	Lbs	Lbs	Pct	Pct	No	No		22s or 27 tx
SOUTH CENTRAL AREA--(Continued)																								
MISSISSIPPI																								
ARCOLA																								
1	SLM	41	35	1.07	45	4.1	88	23	6.3	2.1	1	2	6.2	100	32	5.7	3.7	100	70	12	9	51		
BELZONI																								
1	SLM	41	34	1.04	46	4.8	91	24	6.1	2.9	2	3	6.7	96	31	5.3	3.9	110	90	13	9	45		
DUCK HILL																								
2	SLM	41	34	1.05	45	4.2	86	22	8.2	1.9	1	2	5.7	106	34	6.4	4.7	110	90	7	8	56		
GREENVILLE																								
1	MID	31	35	1.13	44	3.9	89	26	8.0	2.2	0	2	5.1	122	41	6.8	5.0	100	80	13	9	64		
INDIANOLA																								
2	LM	51	33	1.02	44	3.9	95	23	5.2	4.6	3	2	6.5	104	32	5.3	3.6	100	80	15	14	49		
INDIANOLA																								
2	SLM	41	33	1.03	44	4.3	93	23	6.3	3.2	2	3	6.3	100	32	5.2	4.0	100	90	8	9	48		
LYON																								
1	SLM	41	34	1.07	45	4.8	91	24	6.4	3.2	2	3	7.0	101	31	5.4	4.0	100	80	10	9	49		
NATCHEZ																								
2	SLM	41	34	1.07	44	4.2	85	21	7.0	3.1	1	2	6.6	102	32	5.7	4.2	100	80	18	12	52		
PANTHER BURN																								
1	SLM	41	35	1.13	43	4.0	87	24	7.6	2.8	1	2	7.2	114	37	6.7	4.9	90	70	23	20	58		
SCOTT																								
2	SLM	41	34	1.12	44	4.2	84	24	8.4	2.5	1	2	5.6	122	42	6.9	5.3	100	90	12	10	72		
SUNFLOWER																								
1	SLM	41	33	0.99	44	4.6	89	22	6.0	3.1	2	2	6.9	92	27	5.3	3.5	110	80	14	10	42		
TRI88EIT																								
1	SLM	41	34	1.07	45	4.5	89	25	7.9	3.9	1	2	6.4	113	36	6.4	4.8	120	90	9	8	60		
TRI88EIT																								
1	SLM	41	34	1.06	45	4.7	87	22	5.2	2.8	2	3	6.6	92	26	4.8	3.0	110	90	11	9	42		
WATER VALLEY																								
1	SLM	41	34	1.02	43	3.9	88	24	7.6	2.5	1	2	6.0	105	31	6.3	4.3	90	70	14	13	48		

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns										
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial		
No	Grade	Stple	2.5% span	Unif.	Zero Gage		1/8" Gage	Mpsi			G/tex	Pct		No	Yel	27 tx	Lbs	27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		22s or 27 tx	50s or 12 tx
SOUTH CENTRAL AREA--(Continued)																								
MISSOURI																								
CATRON																								
1	SLM	41	35	1.08	45	4.0	91	24	7.2	3.9	1	2	6.4	100 PERCENT		112	36	6.3	4.7	100	90	11	9	58
HAYTI																								
1	MID	31	35	1.10	46	4.4	92	23	7.1	1.8	0	2	5.1	80 PERCENT		115	37	6.8	5.5	110	80	11	11	61
SENATH																								
2	SLM	41	35	1.09	45	3.5	86	22	7.6	2.9	1	2	6.2	100 PERCENT		112	37	6.7	4.9	80	70	22	19	61
TENNESSEE																								
BRADEN																								
1	SLM	41	35	1.07	44	4.1	91	24	7.0	2.3	1	3	6.0	95 PERCENT		112	34	5.9	4.6	100	80	13	12	52
MCLEMORESVILLE																								
1	MID	31	34	1.06	46	4.5	84	22	8.4	1.9	1	3	4.5	80 PERCENT		109	35	6.6	4.8	110	90	8	8	58
SOUTHWEST																								
CENTRAL TEXAS																								
AQUILLA																								
2	SGO	61	31	1.04	42	3.3	80	22	6.4	7.0	3	3	10.0	100 PERCENT		96	30	5.7	3.8	70	60	34	31	47
NAVASOTA																								
2	SLM	41	35	1.14	45	4.4	80	24	7.5	2.3	2	3	6.0	95 PERCENT		110	37	6.4	4.8	100	80	14	12	61
WEST																								
ARIZONA																								
BUCKEYE																								
1	SLM	41	35	1.10	44	5.0	87	24	7.1	2.4	1	3	5.6	100 PERCENT		107	36	6.0	4.3	100	70	21	17	53
ELOY																								
1	MID	31	35	1.08	43	4.6	82	22	7.4	1.7	1	3	4.8	70 PERCENT		102	32	6.4	4.7	90	80	10	10	52
ROLL																								
1	SLM	41	35	1.12	44	4.3	84	23	7.8	2.6	1	3	7.2	95 PERCENT		100	31	5.8	4.3	80	60	26	21	50
WENDEN																								
1	MID	31	34	1.10	44	4.4	84	22	7.6	1.9	1	3	5.1	90 PERCENT		101	32	6.1	4.3	100	70	14	12	47

1/ Reduced from 51 because of bark



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns										
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin- Poten- tial		
				2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	Pct	Pct	22s or 27 tx	50s or 12 tx	No	No		22s or 27 tx	50s or 12 tx
WEST AREA--(Continued)																								
CALIFORNIA																								
ARVIN																								
1	SLM	41	36	1.16	46	4.0	89	27	6.9	2.2	2	3	7.6	100 PERCENT		128	44	6.2	4.8	90	70	25	17	73
BUTTONWILLOW																								
1	SLM	41	36	1.16	45	3.6	87	26	6.5	2.6	1	2	7.1	100 PERCENT		134	45	6.5	5.0	80	60	26	22	77
CHOWCHILLA																								
1	MID	31	36	1.13	47	4.2	93	28	5.8	2.2	0	3	5.1	92 PERCENT		136	48	5.8	4.7	100	80	13	13	73
COALINGA																								
1	SLM	41	35	1.16	46	4.0	90	26	6.7	3.0	3	2	6.4	100 PERCENT		128	47	6.8	5.4	70	60	30	20	84
HURON																								
1	SLM PLUS	40	36	1.16	46	4.2	89	27	6.2	2.7	1	2	5.1	100 PERCENT		133	47	6.3	4.9	100	80	19	13	77
KERMAN																								
1	SLM	41	36	1.14	47	4.1	97	28	5.6	2.2	1	3	5.8	85 PERCENT		134	49	6.3	5.0	80	80	21	16	79
LOST HILLS																								
1	SLM	41	35	1.12	43	3.8	92	27	5.9	2.7	2	3	5.7	99 PERCENT		123	42	5.7	4.5	80	70	25	19	66
TULARE																								
1	SLM	41	36	1.12	45	3.9	94	27	6.0	2.6	2	3	5.3	100 PERCENT		135	48	6.1	4.8	80	70	19	15	77

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade Name & Code	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Comber Waste	Strength		Elongation		Appearance Index		Imprfect's		Spin. Poten- tial	
				2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		
																							In
SOUTHEAST AREA																							
ALABAMA																							
ALBERTA																							
41	34	1 SLM	1.10	43	4.3	86	26	COKER 310	5.7	2.2	1	3	6.8	106	34	5.1	3.8	110	90	24	8	56	
												*	18.3	130	47	5.7	4.6	120	100	8	4		
95 PERCENT																							
GEORGIA																							
MADISON																							
41	35	1 SLM	1.14	45	4.6	86	25	COKER 310	6.4	4.6	2	3	6.9	116	40	5.5	4.5	110	90	19	14	66	
												*	16.2	136	49	6.6	5.2	120	100	8	7		
100 PERCENT																							
SOUTH CENTRAL AREA																							
MISSISSIPPI																							
LAKE CORMORANT																							
41	35	1 SLM	1.11	41	3.7	91	27	COKER 310	5.6	3.3	1	3	6.6	113	37	5.5	3.8	100	80	17	16	55	
												*	22.0	141	50	6.2	5.1	100	90	9	10		
100 PERCENT																							

\* Comber Waste and Combed Yarn Data